Recombinant Human Antioxidant Protein 1 Homolog (Yeast)

Cat. No. ATOX1-2741H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human Full length HAH1 cloned from human cDNA, is expressed in*E. coli.*
Species	Human
Source	E.coli
Description	Copper transport protein ATOX1 is a protein that in humans is encoded by the ATOX1 gene. This gene encodes a copper chaperone that plays a role in copper homeostasis by binding and transporting cytosolic copper to ATPase proteins in the trans-Golgi network for later incorporation to the ceruloplasmin. This protein also functions as an antioxidant against superoxide and hydrogen peroxide, and therefore, may play a significant role in cancer carcinogenesis. Because of its cytogenetic location, this gene represents a candidate gene for 5q-syndrome. In melanocytic cells ATOX1 gene expression may be regulated by MITF.
Purity	> 95% by SDS-PAGE. The protein was observed as a single band migrating at a molecular weight <10 kDa.
Characteristics	Under the above described conditions, to avoid precipitation or protein dimerization, the product can be concentrated to a maximum of 1mM.
Storage	-20oC. The protein is stable at 4oC for at least 2 weeks and at 25oC for at least several hours. After initial defrost, aliquot product into individual tubes and refreeze at -20oC. Avoid repeated freeze/defrost cycles.

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Full Length	Full L.

GENE INFORMATION

Gene Name	ATOX1 ATX1 antioxidant protein 1 homolog (yeast) [Homo sapiens]
Synonyms	ATOX1; ATX1 antioxidant protein 1 homolog (yeast); ATX1; HAH1; MGC138453; MGC138455; antioxidant protein 1; metal transport protein; copper transport protein; ATX1 (antioxidant protein 1, yeast) homolog 1; Copper transport protein ATOX1; Metal transport protein ATX1
Gene ID	475
mRNA Refseq	NM_004045
Protein Refseq	NP_004036
MIM	2270
UniProt ID	O00244
Chromosome Location	5q32
Function	copper chaperone activity; copper-dependent protein binding; metal ion binding

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